

# OEM Lighting Controls

Casambi Enabled Wireless Detectors



# Lighting Manufacturers & CP Electronics OEM

## A Smart Connection

App-controlled 'smart' lamps and luminaires have become increasingly popular within the industry, with customers expectations shifting to view smart solutions as the norm. With the world increasing its reliance on smart communication, lighting manufactures must prepare to match demands with smart products.

As leaders in energy-saving lighting controls since 1970, CP Electronics has many long-established partnerships with lighting manufacturers around the world. With our focus on producing innovative products, coupled with our commitment to quality and service excellence, we are best placed to partner with lighting manufacturers to produce innovative products to meet the high expectations of end users.



### Collaborative Relationships

We work closely with lighting manufacturers, meeting their needs for design, technical collaboration and production standards. CP OEM takes your company's brand reputation as seriously as we do our own; our reputation for quality speaks for itself.



### Design Innovation

Our R&D team include some of the brightest and most experienced R&D engineers in the industry. Our internal designers and technical services engineers work closely with you to ensure the product performs to your requirements. Our expertise extends from mechanical design of form factors, through to software for simple set-up and electronic design.



### Manufacturing Excellence

CP Electronics works to the highest standards of health & safety, with a safe, well-trained and competent workforce and the lowest possible risk of production delays, of which we were awarded the prestigious BS OHSAS 18001-2007 international safety standard. In conjunction with the ISO 9001-2008 for compliance to strict assembly and test procedures, and ISO 14001-2004 environmental standards.

# Effortless Connectivity

CP Electronics sensing capability meets Casambi's smart wireless technology.

## Casambi Technology

This state-of-the-art wireless technology enables modern smartphones, tablets and even smart watches to be a lighting controller. Their lighting control technology can be integrated into luminaires and LED drivers to create a highly functional solution with minimal cost and installation effort.

## CP Electronics Casambi Enabled Wireless Detectors

Many Casambi enabled detectors offer only sensing without any control outputs, requiring the use of additional Casambi nodes or Casambi enabled drivers within luminaires. CP Electronics Casambi enabled detectors possess both a switched output and a broadcast DALI output allowing control of luminaires without any additional devices. With no additional nodes required per lighting fixture, huge cost savings can be made.

## Key Benefits of CP Electronic's Casambi Enabled Wireless Detectors

- Smart automatic joining to mesh network on power up, thus one for one self-healing replacement is possible
- Single point of network failure is removed
- Rugged de-centralised control that continues to function even during loss of network
- Full flexibility to group or re-group and configure advanced daylight, occupancy and time control regimes
- Commissioning tools with wireless signal diagnostic aids
- DALI dimming and separate relay output gives greater installation flexibility.



**CASAMBI**

# Our Casambi Enabled Products

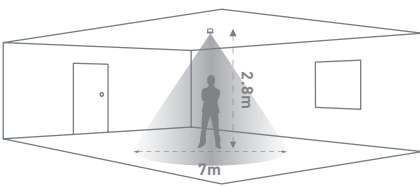


## EBDSPIR Compact detectors

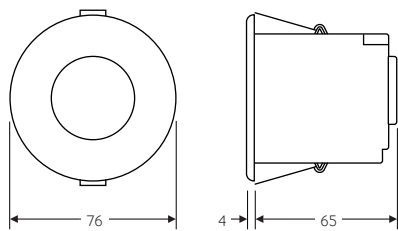
### Key Features:

- Low profile design
- Self contained unit
- Programmable time delay and lux settings with mobile app
- Provides automatic control for lighting and ventilation loads
- Relay and DALI output channels available
- 5 year warranty

### Detection pattern high < sensitivity > low



### Dimensions (mm)



Order Code	Description
<b>EBDSPIR-CB-DD</b>	Casambi wireless mesh PIR detector with DALI & relay output

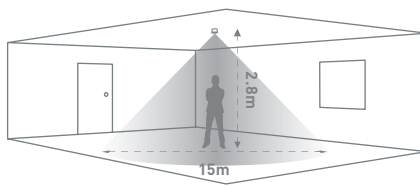


## EBDMR Mid range detectors

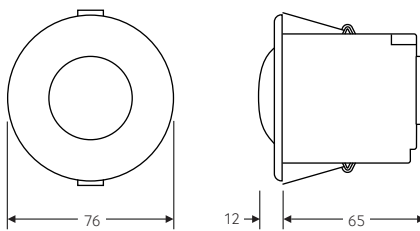
### Key Features:

- New mid range lens with concentric lens facets for improved detection
- 360° presence and absence detection
- Relay and DALI output channels available
- Ideal for open plan offices
- 5 year warranty

### Detection pattern high < sensitivity > low



### Dimensions (mm)



Order Code	Description
<b>EBDMR-CB-DD</b>	Casambi wireless mesh, mid range, PIR presence detector with DALI & relay output

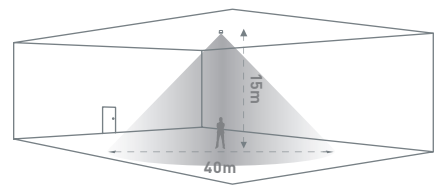


## EBDHS-B High level detectors

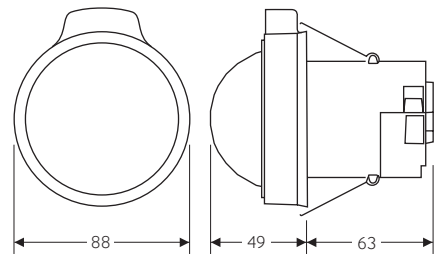
### Key Features:

- Ground breaking detection range
- Unique lens technology – high sensitivity
- Ideal for high level/high bay applications
- Supplied with adjustable masking shields to tailor detection zones
- Relay and DALI output channels available
- 5 year warranty

### Detection pattern high < sensitivity > low



### Dimensions (mm)



Order Code	Description
<b>EBDHS-B-CB-DD</b>	Casambi wireless mesh, high bay/high level, PIR detector with DALI & relay output

# Example Applications

Below are two examples of CP Electronics wireless mesh presence detectors being used in conjunction with a Casambi wireless mesh network. CP Electronics products are suitable for a wide variety of applications, please contact us for more information.

**Office application**

In an office application, triggering a detector sends a Bluetooth signal to all associated devices within the wireless mesh. The end user benefits from this decentralised set up with app based control via a smart device.

Accurate daylight harvesting balances luminaire output with the natural lighting available. The compact EBDSPiR and the EBDMR mid-range detectors will then send a signal to adjust the light output of the luminaires within a specified area, ensuring the efficient use of energy and maintaining a comfortable, safe working environment.

Separate dimming and relay outputs gives extra flexibility within the space.

**Warehouse application**

The patented fresnel lens design along with a multi-pyro feature gives the EBDHS high bay detector its impressive detection performance. By having a dedicated external light sensor, the detector is better able to offer precise readings of light level in a controlled space, an issue that is particularly demanding when mounted at high levels.

Its excellent wireless mesh range ability and wide detection capability makes it ideal for large space installations. The smart device programability enables these detectors to offer the flexibility to adapt any group of lights to suit the needs of developing warehouse layouts including racking aisles.

**Key**

Sensor    
 Luminaire    
 Bluetooth Wireless Mesh    
 Zones

# Integration with Leading Control Standards

CP Electronics expertly integrates the world's most advanced control technologies into its products to enable OEMs to match our industry-leading products with the control system of their choice. You can rely on us to deliver the highest quality and support, time after time.



## KNX Presence Detectors

CP Electronics brings its extensive functionality to KNX, the worldwide standard for unifying all communication between intelligent devices that light, heat and ventilate homes and buildings.



## SR Presence Detectors

As one of the earliest members of the Philips Sensor Ready Certified Partner Program, CP Electronics can offer a suite of SR compatible detectors, providing easy communication compatibility between the sensor and the luminaire driver.



## DALI Network Detectors

An established network-based, addressable lighting control system, our products are powered, commissioned and polled over a DALI two-wire bus and can be queried for presence and lux level.



## An-10 Wireless Lighting Control

Specifically designed by CP Electronics to embrace the advantages of wireless technology, but fully featuring the functionality demanded by modern lighting control systems.



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